



Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name: Testing Laboratory, Indian Friction material
Engg. Co.

Page No. 1 of 5

Address: Plot C-41, Sec-B2, Tronicacity, Ghaziabad-
201103 Uttar Pradesh

Certificate No.: T-0016

Issue date : 30.05.2025
Validity : 29.05.2029

Sr No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Technique s used	Facility
1	Brake Lining	Dimensional Tolerance-	a) Thick: 1 mm to 20 mm	IS 2742: (Part - 1)	Permanent
		a) Thickness	b) Width: 1 mm to 50 mm		
		b) Width			
2	Brake Lining	Specific Gravity	1.00 to4.00	IS 2742:(Part 3) / SAE J380	Permanent
3	Brake Lining	Rockwell Hardness	HRR 40 to 120	IS 2742: (Part 3) / ISO 2039-2	Permanent
4	Brake Lining	Rockwell Hardness	HRL 40 to 120	IS 2742: (Part 3) / ISO 2039-2	Permanent
5	Brake Lining	Cross Breaking Strength	150 to 500 kg/cm2	IS 2742 (Part 3)	Permanent
6	Brake Lining	Internal Shear Strength	1.0 to 25N/mm2	IS 2742 (Part 5)/ ISO 6311	Permanent
7	Brake Lining	Coeff. Of Friction (FCTR) – Normal & Hot	(0.250 to 0.550) μ	IS 2742(Part4) / SAE J661	Permanent
			(0.200 to 0.600) μ		
8	Brake Lining	Edge Code	D (0.150 to 0.250)	SAE J866	Permanent
			E(0.251 to 0.350)		
			F (0.351 to 0.450)		
			G (0.451 to 0.550)		
			H (> 0.550)		
9	Brake Lining	Wear in Thickness	0.01mm to 2.00 mm	IS 2742 (Part-4) / SAE J661	Permanent
10	Brake Lining	Wear in Weight	0.01g to 2.00 g	IS 2742 (Part-4) / SAE J661	Permanent



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Sr · N o	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Technique s used	Facility
11	Brake Lining	Constant Speed Test Rig (CSTR)&	0.150 to 0.550 μ	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
		Variable Speed Test Rig (VSTR)			
		Mue Operation -1			
		Mue Operation -2			
		Mue Recovery			
		Mue Minimum			
Mue Maximum					
12	Brake Lining	Avg Pad Wear(mm)	0.01mm to 2.00 mm	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
13	Brake Lining	Avg Pad Wear (g)	0.01 g to 4.00 g	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
14	Brake Lining	Coeff. Of Friction (Brake Inertia Dynamometer)	0.150 to 0.600 μ	IS 13453/ SAE J2522	Permanent
		D1 performance			
		D2 performance			
		Wear in thickness(mm)	0.10 to 2.00 mm		
Wear in weight (g)	0.10 to 5.00 g				
15	Brake Shoe	Specific Gravity	1.00 to 4.00	IS 2742 (Part 3) / SAE J380	Permanent
16	Brake Shoe	Rockwell Hardness	HRR 40 to 120	IS 2742 (Part 3) / ISO 2039-2	Permanent
17	Brake Shoe	Rockwell Hardness	HRL 40 to 120	IS 2742:(Part 3) / ISO 2039-2	Permanent
18	Brake Shoe	Bond Shear Strength	15kg/cm ² to 90 kg/cm ²	IS 2742 (Part 7)/ ISO 6312	Permanent
19	Brake Shoe	Coeff. of Friction (FCTR) - Normal & Hot	(0.250 to 0.550) μ (0.200 to 0.600) μ	IS 2742 (Part- 4) / SAE J661	Permanent

This is annexure to 'Certificate of Accreditation' and does not require any signature

Reg Office:307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



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Sr No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
20	Brake Shoe	Edge Code	D (0.150 to 0.250)	SAE J866	Permanent
			E(0.251 to 0.350)		
			F (0.351 to 0.450)		
			G (0.451 to 0.550)		
			H (> 0.550)		
21	Brake Shoe	Wear in Thickness	0.01mm to 2.00 mm	IS 2742(Part- 4) / SAE J661	Permanent
22	Brake Shoe	Wear in Weight	0.01 to 2.00 g	IS 2742(Part- 4) / SAE J661	Permanent
23	Brake Shoe	Constant Speed Test Rig (CSTR)	0.150 to 0.550 μ	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
		Variable Speed Test Rig(VSTR)			
		Mue Operation -1			
		Mue Operation -2			
		Mue Recovery			
		Mue Minimum			
		Mue Maximum			
24	Brake Shoe	Avg Pad Wear(mm)	0.01 mm to 2.00 mm	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
25	Brake Shoe	Avg Pad Wear (g)	0.01 g to 4.00 g	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
26	Brake Shoe	Coeff. Of Friction (Brake Inertia Dynamometer)	0.150 to 0.600 μ	IS 13453/ SAE J2522	Permanent
		D1 performance			
		D2 performance			
		Wear in thickness(mm)	0.01 mm to 2.00 mm		
		Wear in weight (g)	0.01g to 5.00 g		



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Sr No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
27	Brake Pad	Specific Gravity	1.00 to 4.00	IS 2742:(Part 3) / SAE J380	Permanent
28	Brake Pad	Rockwell Hardness	HRR 40 to 120	IS 2742 (Part 3) / ISO 2039-2	Permanent
29	Brake Pad	Rockwell Hardness	HRL 40 to 120	IS 2742 (Part 3) / ISO 2039-2	Permanent
30	Brake Pad	Bond Shear Strength	15 kg/cm ² to 90 kg/cm ²	IS 2742 (Part 7) / ISO 6312	Permanent
31	Brake Pad	Internal Shear Strength	1.0 to 25.0 N/mm ²	IS 2742 (Part 5)/ ISO 6311	Permanent
32	Brake Pad	Coeff. of Friction (FCTR)- Normal & Hot	0.250 to 0.550μ 0.200 to 0.600μ	IS 2742 (Part- 4) / SAE J661	Permanent
33	Brake Pad	Edge Code	D (0.150 to 0.250)	SAE J866	Permanent
			E(0.251 to 0.350)		
			F (0.351 to 0.450)		
			G (0.451 to 0.550)		
			H (> 0.550)		
34	Brake Pad	Wear in Thickness	0.01mm to 2.00 mm	IS 2742: (Part- 4) / SAE J661	Permanent
35	Brake Pad	Wear in Weight	0.01 g to 2.00 g	IS 2742: (Part- 4) / SAE J661	Permanent
36	Brake Pad	Constant Speed Test Rig (CSTR) & Variable Speed Test Rig (VSTR)	0.150 to 0.550μ	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
		Mue Operation -1			
		Mue Operation -2			
		Mue Recovery			
		Mue Minimum			
		Mue Maximum			



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37	Brake Pad	Avg Pad Wear(mm)	0.01 mm to 2.00 mm	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
38	Brake Pad	Avg Pad Wear (g)	0.01 g to 4.00 g	IS 17132 Annex – H / ECE R90 Annex - 9	Permanent
39	Brake Pad	Coeff. Of Friction (Brake Inertia Dynamometer)	0.150 to 0.600 μ	IS 13453/ SAE J2522	Permanent
		D1 performance			
		D2 performance			
		Wear in thickness(mm)	0.01 mm to 2.00 mm		
		Wear in weight (g)	0.01g to 5.00 g		
2. Discipline: Mechanical Group: Thermal Test					
1	Brake Lining	Heat Expansion	0.1% to 5.0 %	IS 2742: (Part 6) /ISO 6310	Permanent
2	Brake Lining	Compressibility	0.1% to 5.0 %	IS 2742 (Part 6) /ISO 6310	Permanent
3	Brake Lining	Heat Swell	0.01mm to 1.00 mm	IS 2742 (Part 3) / SAE J160	Permanent
4	Brake Shoe	Heat Expansion	0.1% to 5.0 %	IS 2742 (Part 6) /ISO 6310	Permanent
5	Brake Shoe	Compressibility	0.1% to 5.0 %	IS 2742 (Part 6)/ ISO 6310	Permanent
6	Brake Shoe	Heat Swell	0.01 mm to 1.00 mm	IS 2742 (Part 3) / SAE J160	Permanent
7	Brake Pad	Heat Expansion	0.1% to 5.0%	IS 2742(Part 6)/ ISO 6310	Permanent
8	Brake Pad	Compressibility	0.1% to 5.0 %	IS 2742 (Part 6) ISO 6310	Permanent
9	Brake Pad	Heat Swell	0.01 mm to 1.00 mm	IS 2742 (Part 3) / SAE J160	Permanent